# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTUM THERMAL IMAGING SCOPES</td>
<td>4</td>
</tr>
<tr>
<td>APEX THERMAL IMAGING RIFlescopes</td>
<td>8</td>
</tr>
<tr>
<td>CORE THERMAL IMAGING SCOPE / FRONT ATTACHMENT</td>
<td>12</td>
</tr>
<tr>
<td>DIGIFORCE DIGITAL NIGHT VISION SCOPES</td>
<td>16</td>
</tr>
<tr>
<td>DIGISIGHT DIGITAL NIGHT VISION RIFlescopes</td>
<td>20</td>
</tr>
<tr>
<td>FORWARD DIGITAL NIGHT VISION SCOPE / FRONT ATTACHMENT</td>
<td>24</td>
</tr>
<tr>
<td>CHALLENGER NIGHT VISION SCOPES</td>
<td>28</td>
</tr>
<tr>
<td>EDGE NIGHT VISION BINOCULARS &amp; DOGGLS</td>
<td>32</td>
</tr>
<tr>
<td>PHANTOM NIGHT VISION RIFlescopes</td>
<td>36</td>
</tr>
<tr>
<td>EXPERT PROFESSIONAL BINOCULARS</td>
<td>40</td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td>44</td>
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QUANTUM
XQ19  XQ38  XQ50

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<table>
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<th>Field of view</th>
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</tr>
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<td>9.8°</td>
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<tr>
<td>19.5°</td>
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</table>
High image frequency

Due to the high image frequency (50 Hz) it is comfortable to use thermal camera dynamically (during rapid moving of observer or object of observation).

Rangefinding reticle

Quantum has a stadiametric rangefinder performed in the shape of ranging reticle which enables distance measuring to observed objects with known height (deer – 1.7m; boar – 0.7m; hare – 0.3m) with a sufficient precision.

Long viewing range

Actual range of detection of a human figure in the field (human has outerwear in the field against the background of the forest) for the Quantum varies from 315 to 1079 yds, depending on the model.

Wide range of operation temperatures

Quantum imaging scopes are effective for the use in low temperatures (-13°F) thanks to the frost-resistant OLED* display employed in the unit (image remains the same as when viewing at positive temperature of the surrounding environment).

* - 77331, 77332, 77333 models

Color palettes

Quantum XD/XQ offers a choice of 6 color palettes for captured by objective lens image, monochrome (usual “hot white”, “hot black”) and color highlighting the hottest and coldest areas with different colors.

Display off

When it is necessary to temporarily stop observation the user can apply DISPLAY OFF function. It provides the necessary level of camouflage (no light from the eyepiece of the device) between observation sessions as well as the fast restart of observation (when display is turned off, all other systems are working; for normal operation it is enough to turn on the display again). Function is not available in 77326 model.

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Video output
The Quantum scopes are equipped with an analog video output to enable connection of external recording equipment or transmitting image to the display.

Calibration
The Quantum offers three calibration modes: silent manual mode (’M’), automated (’A’) and semi-automated (’H’). The ’M’ mode requires calibration without user participation (process initiation (actuation of the shutter) takes place automatically). In the ’A’ mode the user decides on his own if calibration is required based on the image quality. Button ‘Cal’ is pressed in this mode. Manual calibration (’M’) is carried out by pressing the button when the lens cap is closed. The ’H’ mode is recommended for hunting due to silent operation.

User interface
Actual information about the status of the thermal imaging device, depicted in the form of blue icons and numbers, is located on the data panel in the lower portion of the screen, and does not interfere with the image observed. When switching between various functions (digital zoom, color inversion, brightness/contrast settings), the respective large sized icon appears in the right upper portion of the screen.

Self-contained power supply
The Quantum is powered with four AA (rechargeable) batteries. The batteries are stored in a container which is then placed in a battery compartment of the unit.
### Wireless remote control

The wireless remote control (Quantum XQ models) allows basic operations to be fulfilled without resorting to standard controls.

### Power saving mode

Disabling the video output module in the Quantum series thermal scopes increases self-contained operating time on a set of batteries or external power supply.

### Operating modes

The Quantum suggests three operating modes, each designed to deliver best possible image in specific viewing conditions. The modes are as follows:

- **“City”** (enhanced contrast)
- **“Forest”** (low contrast)
- **“Identification”** (improved rendering of hot objects’ details).

### External power supply

Unit’s operating time can be significantly increased thanks to the use of external power supplies (for example, Pulsar EPS3I/EPS5) that can be connected with a special jack. When used in frosty weather, the power supply can be stored under the clothes.

### Power saving mode

Disabling the video output module in the Quantum series thermal scopes increases self-contained operating time on a set of batteries or external power supply.

### Technical specifications

<table>
<thead>
<tr>
<th>SKU</th>
<th>Model</th>
<th>Magnification, x</th>
<th>Range of detection, yds</th>
<th>Field of view,°, horizontal &amp; vertical (without zoom)</th>
<th>Dimensions, inch</th>
<th>Weight (without batteries), oz</th>
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<tbody>
<tr>
<td>77331</td>
<td>XQ19</td>
<td>F19/1.2</td>
<td>1.6 – 6.4</td>
<td>19.5x14.7</td>
<td>7.7x3.4x2.3</td>
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<td>77332</td>
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<td>7.5x5.6</td>
<td>8.1x3.4x2.3</td>
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---

**Thermal imaging scopes Quantum**

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**THERMAL RIFLESCOPES**
"Picture-in-Picture" function

"Picture-in-Picture" function provides a shooter with a possibility to display an additional image region on the screen which contains a 2x magnified image of a target and reticle. This allows seeing image in the aiming area in a more detailed way. Additional region (precision aiming frame) is situated in the top center part of the screen above the reticle. Occupying merely 1/10 of the total screen area additional image region allows simultaneous use of total field of view for observation.

Zeroing with «Freeze» function

Standard for Pulse digital riflescopes “one shot zeroing” in Apex models is complemented by an even more convenient zeroing function – “Freeze”: after making a zeroing shot it is enough to save a frame of a target in the memory of the riflescope and align reticle with point of impact looking at this frame without the necessity of keeping full immobility of a weapon.

Selectable reticles

A reticle is electronically displayed on the screen and is permanently located in the plane of target image. The Apex internal memory contains 10 reticles of various shapes and applications. The software allows the user to save in riflescope’s memory three points of impact for three various distance types of weapon or cartridges, and each option allows the use of a dedicated reticle.

More than 1000 yards target detection

Depending on the model Apex riflescopes provide hunting game detection (wild boar, moose, deer, or bear) at distances of 1000 yards and more. Apex riflescopes employ a new technology of programmed improvement of object detection IRIS (Increased Recognition and Detection Software).

3 types of zeroing parameters memorization

The software allows the user to save in riflescopes memory three points of impact for three various distance types of weapon or cartridges, and each option allows the use of a dedicated reticle.
Display Off function
Apex has display shut down function which has to be used in the cases of short breaks during the process of observation for preventing disclosure of the shooter by the light from the eyepiece. When display is turned off all other systems are fully functional which allows instantaneous activation of the riflescope.

Operating modes
The Apex offers three operating modes, each designed to deliver the best possible image in specific viewing conditions: “Rocks” (enhanced contrast), “Forest” (low contrast) and “Identification” (improved rendering of hot objects’ details).

External power supply
Operational time can be significantly increased with the help of external power supplies (e.g., Pulsar EPS3, EPS3I, EPS5). When used in frosty weather, the power supply can be stored under the clothes.

Video out
The Apex thermal sights are equipped with a Video Out jack enabling real-time video recording with the use of external recording equipment.

Wireless remote control
The wireless remote control allows basic operations to be fulfilled without resorting to standard controls.
## Thermal Riflescopes Apex

### Model Specifications

- **Model:** 7641, 76425, 76426, 76475, 76476
- **Objective Lens:** F38/1.2, F50/1.2, F75/1.4
- **Microbolometer Resolution:** 384 x 288 @ 25 K
- **Field of View:**
  - XD38A: 14° x 10.8°
  - XD50: 11° x 8.2°
  - XD75A: 7° x 5.4°
- **Range of Detection:**
  - XD38A: 1040 yds
  - XD50: 1370 yds
  - XD75A: 1750 yds
- **Weight (without batteries & mount):**
  - XD38A: 21.2 lbs
  - XD50: 24.7 lbs
  - XD75A: 27.2 lbs

### Technical Specifications

- **Internal Focusing**
- **Frost-Resistant OLED Display**
- **Anti-Shock Sensor Protection**
- **Eyesafe Eye Relief**
- **Fully Waterproof**
- **Long Eye Relief**
- **High Shock Resistance**
- **Wide Operating Temperature Range**

### Features

- **Wide operating temperature range**
  - (-13°F...+122°F)
- **Ability to operate in normal mode at sub-zero temperatures**
  - Due to the use of a frost-resistant OLED (640x480 display, 76425 & 76475 models) featuring fast response and providing crisp images when observing dynamic objects.
- **Fully waterproof**
  - With IPX7 (IEC 60529 Standard) water protection grade, Apex thermal sights can be operated in any conditions of precipitation and withstand a short underwater submersion.
- **Eyesafe eye relief**
  - One of the best parameters in its class.
- **High shock resistance**
  - Original shock and vibration protection of microbolometer array allows using Apex thermal sights on large caliber up to .375 rifled hunting guns and on smooth-bore and air rifles.
- **Long Eye Relief**
  - With 67mm eye relief, the Apex thermal sights feature a 67mm eye relief, one of the best parameters in its class.
- **Wide operating temperature range**
  - (-13°F...+122°F)
- **Ability to operate in normal mode at sub-zero temperatures**
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### Key Features

- **Internal Focusing**
- **Frost-Resistant OLED Display**
- **Anti-Shock Sensor Protection**
- **Eyesafe Eye Relief**
- **Fully Waterproof**
- **Wide Operating Temperature Range**
- **Long Eye Relief**
- **High Shock Resistance**

### Technical Details

<table>
<thead>
<tr>
<th>Model</th>
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<td>14° x 10.8°</td>
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<td>7° x 5.4°</td>
<td>1040 yds</td>
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<tr>
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<td>1370 yds</td>
<td>1750 yds</td>
<td>1370 yds</td>
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<tr>
<td>Weight (without batteries &amp; mount)</td>
<td>21.2 lbs</td>
<td>24.7 lbs</td>
<td>27.2 lbs</td>
<td>24.7 lbs</td>
<td>27.2 lbs</td>
</tr>
</tbody>
</table>
Quick transformation

Core FXD50/FLD50 is a combination of thermal imaging monocular and front attachment for day riflescope or observation device. Replaceable eyepiece included in the package allows quick transformation in the course of several seconds.

Wide operating temperature range (-13 ... +122°F)

Ability to operate in normal mode at sub-zero temperatures is due to the use of a frost-resistant OLED 640x480 display featuring fast response and provides crisp image when observing dynamic object.

Night time shooting advantages

Nighttime shooting with Core coupled with day optic riflescope has a number of positive moments. Such operational characteristics of day optics as significantly larger (in comparison to classic night vision or thermal riflescopes) eye relief, ordinary reticles, variable magnification are preserved.

Green OLED display

The image is displayed on the green OLED screen in order to ensure comfortable perception and low eye fatigue of observer.

Point of impact stability

Precise optics, original design and software ensure POI stability when attachment is in use. Hunter does not need to make any corrections to position of day scope’s reticle when mounting Core.

Fully waterproof

With IPX7 (IEC 60529 standard) water protection class Core thermal imaging devices can be operated in the conditions of precipitation of any intensity and withstand a short underwater submersion.

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User interface
Actual information about the status of the thermal imaging device, depicted in the form of blue icons and numbers, is located on the data panel in the lower portion of the screen, and does not interfere with the image observed. When switching between various functions (digital zoom, colour inversion, brightness/contrast settings), the respective large sized icon appears in the right upper portion of the screen.

Operating modes
The Core suggests three operating modes, each designed to deliver best possible image in specific viewing conditions. The modes are as follows: “Rocks” (enhanced contrast), “Forest” (low contrast) and “Identification” (improved rendering of hot objects’ details).

Wireless remote control
The wireless remote control allows basic operations to be fulfilled without resorting to standard controls.
<table>
<thead>
<tr>
<th>Skill</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Model</td>
<td>FXD50</td>
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<tr>
<td>Objective lens</td>
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<tr>
<td>Microbolometer resolution, pixels @ pixel pitch, µ</td>
<td>384x288 @ 25 µ</td>
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<tr>
<td>Frame rate, Hz</td>
<td>50</td>
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<tr>
<td>Magnification in monocular mode / attachment mode, x</td>
<td>2.8 – 5.6 (2x digital zoom) / -</td>
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</tr>
<tr>
<td>Weight, without batteries, oz</td>
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</table>

**Core as alternative to thermal sight**

Choose the option that becomes a thermal replacement for a sight vision / thermal scope in the case when optics mounts do not ensure a quick connecting and / or recurrent installation of optics to a correct position. Use of the attachment allows the hunter to maintain the standard change a weapon handling position or style of shooting. Small weight and size simplify controls and does not influence the balance of the rifle significantly.

**Compatible with various day optics**

Attachment allows to turn the majority of day sights with lens diameters from 40 mm to 56 mm into a thermal sight, ensuring correct position of P.O.I. Quick-release bayonet mount allows remove it from the scope in seconds.

**Thermal imaging scope / front attachment Core**

- Frost-resistant green OLED display
- Internal focusing
- Anti-shock sensor protection
- Three sensor calibration modes
- Compatible with various day optics
- Attachment allows to turn the majority of day sights with lens diameters from 40 mm to 56 mm into a thermal sight, ensuring correct position of P.O.I.
- Quick-release bayonet mount allows remove it from the scope in seconds.

- Core as alternative to thermal sight
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**Table: Specifications**

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<tr>
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<th>Value</th>
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<tbody>
<tr>
<td>Model</td>
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</tr>
<tr>
<td>Objective lens</td>
<td>F50/1.2</td>
</tr>
<tr>
<td>Microbolometer resolution</td>
<td>384x288 @ 25 µ</td>
</tr>
<tr>
<td>Frame rate, Hz</td>
<td>50</td>
</tr>
<tr>
<td>Magnification</td>
<td>2.8 – 5.6 (2x digital zoom)</td>
</tr>
<tr>
<td>Range of detection, yds</td>
<td>1310</td>
</tr>
<tr>
<td>Recommended magnification of the day scope (sight), x</td>
<td>6 / 2xCR123A</td>
</tr>
<tr>
<td>Power supply, V / battery type</td>
<td>6 / 2xCR123A</td>
</tr>
<tr>
<td>Dimensions, inch</td>
<td>7.5 х 2.6 х 2.4</td>
</tr>
<tr>
<td>Weight, without batteries</td>
<td>14.1</td>
</tr>
<tr>
<td>Model</td>
<td>Wi-Fi</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>860RT</td>
<td>Yes</td>
</tr>
<tr>
<td>970X</td>
<td>No</td>
</tr>
<tr>
<td>860VS</td>
<td>No</td>
</tr>
</tbody>
</table>
Integrated Wifi module enables real time video streaming on a smartphone or tablet, dedicated mobile application enables simultaneous real time streaming to internet.

- Integrated video recorder
Digital NV Digiforce RT is equipped with integrated recording module that allows recording or photographing during observation. Photos and videos are stored in the memory of the device and can be uploaded either via MiniUSB to PC or via Wifi to mobile device.

- Updatable software
User can update device’s software when the Digiforce RT is acquired new software functions.

---

**Digital NV scopes Digiforce**

**Employment of digital technologies is one of the top priorities for the development of NV devices by Yukon Advanced Optics Worldwide. Digital devices possess certain unbeatable advantages and extended functionality which help them find applications not only in the hunting market, but also in wildlife observation, law enforcement and security markets:**

**Protection against bright light sources**
Digital NV devices can be turned on in the daytime without the fear of being damaged either immediately or in the long term. They are not damaged by car headlights or street lighting.

**Long-life performance**
Average life of a CCD array is 25000 hours, which is up to twice as much as the best image intensifier tubes.

**Signal reception and transmission**
Digital NV devices are well-suited for image recording with integrated or external recording equipment.

**Effective use with “invisible” IR Illuminators**
As opposed to image intensifier tube based devices, digital NV equipment features advanced efficiency when used with IR illuminators operating high up the near infrared spectrum (more than 900nm), which are generally available to the naked eye.

**Device control**
Using a dedicated mobile application (available for iOS and Android), it is possible to control the device remotely via WIFI interface.

**GENERATION DIGITAL**

**User can update device’s software when the Digiforce RT is acquired new software functions.**

**Integrated video recorder**
Digital NV Digiforce RT is equipped with integrated recording module that allows recording or photographing during observation. Photos and videos are stored in the memory of the device and can be uploaded either via MiniUSB to PC or via WIFI to mobile device.
Protection against bright light sources

Digital night vision devices Digiforce are equipped with two types of IR illuminators: LED illuminator with 805 nm wavelength and eye-safe laser with 915 nm wavelength. Both illuminators have 3-stage power adjustment. Digiforce X970 model operates in invisible infrared spectral range and allows virtually concealed observation.

External power supply

Operation time can be significantly prolonged by using high-capacity external power supply units. During extended use in freezing weather, the external power supply units can be stored under the operator’s clothes via an included extension lead.
## Digital NV scopes Digiforce

### Mounts

- **Mounts**: The Digiforce night vision scopes are equipped with an original mount fitting which combines a ¼ inch tripod socket (to enable mounting on a tripod) and a Mil-STD 1913 Weaver short rail to enable mounting different accessories including auxiliary IRs, sound amplification and other systems.

### DIGITAL NIGHT VISION

<table>
<thead>
<tr>
<th>Model</th>
<th>78097</th>
<th>78096</th>
<th>78095</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor, type / resolution, pix.</td>
<td>CMOS / 640x480</td>
<td>CMOS / 640x480</td>
<td>CMOS / 640x480</td>
</tr>
<tr>
<td>Display, type / resolution, pix.</td>
<td>LCD / 640x480</td>
<td>LCD / 640x480</td>
<td>LCD / 640x480</td>
</tr>
<tr>
<td>Magnification, x</td>
<td>6…12</td>
<td>6…12</td>
<td>6…12</td>
</tr>
<tr>
<td>Sensitivity of device, mW (wavelength 780 / 915 nm)</td>
<td>4.4·10^-6 / 2.2·10^-6</td>
<td>4.4·10^-6 / 2.2·10^-6</td>
<td>4.4·10^-6 / 2.2·10^-6</td>
</tr>
<tr>
<td>Built-in Flashlight, type / wavelength, nm</td>
<td>LED / 810</td>
<td>LED / 810</td>
<td>Laser / 915</td>
</tr>
<tr>
<td>Detection / Recognition range (human figure), yds, built-in IR on</td>
<td>300 / 160</td>
<td>300 / 160</td>
<td>300 / 160</td>
</tr>
</tbody>
</table>

### Specifications

- **Self-contained power supply, V / Battery type**: 3.8·10^-3 / 1.1·10^-3 (Micro USB) / 4хАА +5…+113
- **External power supply, V**: 5 (Micro USB) / 8 - 15 / 8 - 15
- **Operating temperature, °F**: +5…+113 / +5…+113 / +5…+113
- **Mounting height**: 52 cm

---

**Notes**

- The Digiforce X970. SumLight™ function enables observation in low light without using the IR Illuminator.
The riflescope has the function of saving three user’s zeroing profiles in the memory (for different types of weapons or ammunition), in each case a different reticle can be applied. In addition to that, in Digisight N960 / LRF N960 models each profile allows zeroing for five different distances.

**3 types of zeroing parameters memorization**

The riflescope has the function of saving three user’s zeroing profiles in the memory (for different types of weapons or ammunition), in each case a different reticle can be applied. In addition to that, in Digisight N960 / LRF N960 models each profile allows zeroing for five different distances.

**Digisight N960. Rifle inclination angle**

Rifles are inclined horizontally for an angle of more than 5 degrees a warning sign appears – compound arrows with indication of direction and incline level. The more lines are in the compound arrow the greater is the angle of side incline.

**Digisight LRF N960. THD & AoE functions.**

In the conditions of changeable landscape, when shooting from high stands it is recommended to use THD (True Horizontal Distance) measuring mode – in this mode rangefinder, taking into account the angle of shooter’s elevation relative to a target (AoE), its value is also displayed on the screen: calculates true horizontal distance to an object.

**Selective reticles**

A reticle is electronically displayed on the screen and is permanently located in the plane of target image. The Digisight’s internal memory contains reticles of various shapes and applications. The central part of the reticle is illuminated; color can be changed from red to green. The color of the main part can be switched from black to white.

**High shock resistance**

The Digisight riflescopes feature high shock resistance and can be used with rifled hunting weapon for such cartridges as 9.3х64, .30-06, .300, .375, etc, and with smooth-bore and airsoft weapon.

**Digisight LRF N960. Integrated laser rangefinder**

Extra precise shooting requires an exact knowing of distance. Integrated laser rangefinder with range up to 400m allows to measure distance in single measuring mode and in scanning mode with precision up to ±1 meter (yard).
The Digisight riflescopes feature a 67 mm eye relief – one of the best parameters in its class. The greater is the eye relief the less traumatic is the use of the scope, especially on hunting weapons with considerable recoil.

**Eyesafe eye relief**

The mounting holes in the base of the riflescope enable the mount to be installed in one of multiple positions. This choice (depending on the rifle type, anthropometric data of a shooter, etc.) helps the user to ensure the most suitable position on a riflescope.

**Rifle mount**

When a weapon with a Digisight N960 / LRF N960 is in inclined position of 70° vertically and 30° horizontally for more than 10 seconds in any direction the riflescope will turn off. For energy saving and cases when video from the riflescope is not recorded there is also a possibility to turn off video output module. Both these functions can be activated in the menu of the riflescope.

**Energy saving modes. Automatic shutoff function**

Where a weapon with a Digisight N960 / LRF N960 is in inclined position of 70° vertically and 30° horizontally for more than 10 seconds in any direction the riflescope will turn off. For energy saving and cases when video from the riflescope is not recorded there is also a possibility to turn off video output module. Both these functions can be activated in the menu of the riflescope.

**Wireless remote control**

The wireless remote control allows basic operations to be fulfilled without resorting to standard controls.
### Digital riflescopes Digisight

**Video out**
The Digisight riflescopes are equipped with a Video Out jack enabling real-time video recording with the use of external recording equipment.

**Wide operating temperature range** (-25...+60°C)
Ability to operate in normal mode at sub-zero temperatures is due to the use of a frost-resistant OLED display* featuring fast response and providing crisp image when observing dynamic object.

<table>
<thead>
<tr>
<th>Model</th>
<th>Video Output</th>
<th>Magnification, x</th>
<th>Field of View,°, horizontal</th>
<th>Built-in rangefinder</th>
<th>Built-in IR-illuminator, type / wavelength, nm</th>
<th>Spectral sensitivity at a wavelength of 780 / 915 nm, mW·sr</th>
<th>Detection/Recognition range, yds, built-in IR (object 1.7 m high)</th>
<th>Dimensions, inch</th>
<th>Operating temperature, °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>N960</td>
<td>LED / 810</td>
<td>3.5 – 14</td>
<td>6.5 (on 3.5x)</td>
<td>no</td>
<td>≤ 1,7·10^{-5} / 5,5·10^{-5}</td>
<td>500 / 330</td>
<td>≤ 13 · 10^{-5} / 5,5·10^{-5}</td>
<td>13.4 x 4.4 x 3.7</td>
<td>-25 … +140</td>
</tr>
<tr>
<td>N960</td>
<td>LED / 810</td>
<td>3.5 – 14</td>
<td>6.5 (on 3.5x)</td>
<td>yes</td>
<td>≤ 1,7·10^{-5} / 5,5·10^{-5}</td>
<td>500 / 330</td>
<td>≤ 13 · 10^{-5} / 5,5·10^{-5}</td>
<td>13.4 x 4.4 x 3.7</td>
<td>-25 … +140</td>
</tr>
</tbody>
</table>

* - Digisight N960 / LRF N960 models

**External power supply**
Operating time can be significantly prolonged thanks to the use of high-capacity external power supply units attached to the Digisight via an External Power jack.
During extended use in freezing weather, the external power supply units can be stored under the operator's clothes via an included extension lead.
FORWARD DN55

DIGITAL NV SCOPES & FRONT ATTACHMENTS

IMAGE QUALITY

DIGITAL NIGHT VISION

-12° to 13°
In order to install the Forward onto the front optical bell of a day telescopic sight or spotting scope, it is necessary to use specially designed mounting assemblies. Permanently attached to the optical bell, the adapter allows quick installation of Forward in front of the lens for nighttime use. When the attachment is not used, the adapter accommodates a protective cap that covers the lens of a day sight or spotting scope in the daytime.

**Day / night transformation**

Forward DFA75 allows turning majority of day scopes with lens diameters ranging from 40 mm to 56 mm into a night vision riflescope, ensuring constant position of POI. Quick-release bayonet mount allows removing from the scope in seconds.

**Simple mounting**

Nighttime shooting with Forward coupled with day optical sights has a number of advantages. Such operational characteristics of day optics as significantly larger (in comparison to classic night vision riflescopes) eye relief, ordinary reticle, variable magnification are preserved. Forward can become a better alternative to a night vision riflescope in the case when mounts for mounting optics do not ensure quick mounting and/or recurrent installation of optics to a correct position. Use of the attachment does not require from a hunter a change in weapon holding position or in style of shooting.

**Forward DN55 as observation device**

The new Pulsar 5x30 Monocular (#71011) included in the package can be attached to the Forward DN digital module and used as a 5x power night vision device. Along with this, the Pulsar 5x30 is a fully-functional observation device.

**Conceptual advantages**

Digital night vision Forward

Employment of digital technologies is one of the top priorities for the development of NV devices by Yukon Advanced Optics Worldwide. Digital devices possess certain unbeatable advantages and extended functionality which sets them from applications not only in the hunting market, but also in wildlife observation, law enforcement and security markets.

**Protection against bright light sources**

Digital NV devices can be turned on in the daytime without the fear of being damaged either immediately or in the long term. They are not damaged by car headlights or street lighting.

**Long-life performance**

Average life of a CCD array is 20,000 hours, which is up to twice as much as the best image intensifier tubes.

**Signal reception and transmission**

Digital NV devices are well-suited for image recording with integrated or external recording equipment.

**Effective use with “invisible” IR Illuminators**

As opposed to image intensifier tube based devices, digital NV equipment features advanced efficiency when used with IR Illuminators operating higher up the near infrared spectrum (more than 900nm), which are generally invisible to the naked eye.
Forward DN55 is supplied with a removable laser IR Illuminator operating in the “invisible” range (915nm). The 915nm laser IR Illuminator complies with Class 1 laser safety, features focusable IR beam from spot to flood, three-step power adjustment.

**Built-in IR illuminator**

Forward DN55 is equipped with a Video Out jack enabling real-time video recording with the use of external recording equipment.

**Video out**

Operating time can be significantly prolonged thanks to the use of high-capacity external power supply units attached to the Forward via an External Power jack. During extended use in freezing weather, the external power supply units can be stored under the operator’s clothes via an included extension lead.

**External power supply**

The wireless remote control allows basic operations to be fulfilled without resorting to standard controls.

**Wireless remote control**

Ability to operate in normal mode at sub-zero temperatures is due to the use of a frost-resistant OLED display featuring fast response and provides crisp image when observing dynamic objects.

**Wide operating temperature range**

- Built-in IR illuminator
- Video out
- External power supply
- Wireless remote control
- Wide operating temperature range

PULSAR | IMAGE QUALITY
<table>
<thead>
<tr>
<th>SKU</th>
<th>Model</th>
<th>Sensor Type / Resolution, pix</th>
<th>Built-in IR Illuminator, type / wavelength, nm</th>
<th>Recommended magnification of the day scope (sight), x</th>
<th>Field of view,°, horizontal</th>
<th>Operating temperature, °C</th>
<th>Power Supply, voltage / battery type</th>
<th>Dimensions of the digital module, inch</th>
<th>Weight (without batteries), oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>78115</td>
<td>DN55</td>
<td>CCD / 500x582</td>
<td>Laser / 915</td>
<td>1.5 … 8</td>
<td>5</td>
<td>-13 … +122</td>
<td>3.7 ÷ 6 / 4xAA</td>
<td>6.1x3.2x4.6</td>
<td>19.7</td>
</tr>
</tbody>
</table>

Current information about the status of the device, depicted in the form of blue icons and numbers, is located on the data panel in the lower portion of the screen, and does not interfere with the image observed. When switching between various functions, the respective large sized icon appears in the right portion of the screen.

**User interface**

- **High-aperture lens**
- **Frost-resistant OLED display**
- **High sensitive CCD array**
- **Eye-safe attachable laser illuminator**
- **Audio input**
- **Audio output**

Digital night vision Forward
## CHALLENGER

G3 Select 1x21 / GS 1x20 / GS 3.5x50 / GS 4.5x60

<table>
<thead>
<tr>
<th>Distance</th>
<th>Field of view</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS 1x20</td>
<td>110</td>
<td>0.3</td>
</tr>
<tr>
<td>GS 3.5x50</td>
<td>185</td>
<td>0.5</td>
</tr>
<tr>
<td>GS 4.5x60</td>
<td>220</td>
<td>0.7</td>
</tr>
</tbody>
</table>

Night Vision Scopes

- 36°
- 11°
- 9°
The Challenger night vision scopes are equipped with built-in IR illuminators which are various in design:

**Built-in IR illuminator**

The devices without visual magnification (1x) are equipped with an energy-conserving wide-angled IR illuminator optimised for the use with a head mount in low-light (for map reading, use in dark closed rooms).

All other Challenger units feature a powerful IR illuminator for observation at insufficient levels of illumination at a distance above the average.

**Eyepiece**

The Challenger night vision scopes are outfitted with a five-lens eyepiece that minimizes distortion across the edges of the field of view and increases image sharpness and contrast. A rubber eyepad concides the light emission from the tube thus permitting an ease to stay unnoticed.
**CF-Super technology**

In the use of the image intensifier tube CF-Super(III) series it holds a spherically shaped photocathode and a specially designed optic. There are several advantages:

- **Lack of distortion.** Stabilizes distortion free image both in the center and peripheral areas.
- **High resolution.** The CF-Super tube features, on average, 35% higher resolution than that in Gen. 1 only.

Constant image quality across the whole field of view

CF Super’s resolution is notable for its constancy. A resolution difference between the semidistance does not exceed 20%, whilst contrast and resolution ratio for Gen.1 unit is more than five times.

Effective field of view

High resolution and geometric image precision provided by CF-Super series H4 devices provides effective observation of an object located in any part of the field of view. Majority of Gen. 1 devices feature distinct image quality only in the center of the imaging area.
Controls
All operations are carried out with the help of a single switch that sequentially turns on the unit and IR Illuminator.

Holder group
Two diametrically positioned mounting rails with a ¼ inch tripod mount are used to attach to the Head Mount. An additional Weaver rail on the body is designed to install extra Pulsar IR Illuminator or other accessories.

Head Mount
The Constant head Mount is designed for joint use with the Challenger 1x21. This allows hands-free operation of the night vision device in a perfect and convenient condition. This head Mount ensures stable positioning of a night vision device in front of the user’s eyes, even while in two-motion (crawling, running or sitting) movement. The Head Mount’s design is both convenient and safe. All accessories of the suspension point indicate fatigue and rust on the unit’s case. It operates for long periods of time. The Head Mount can also be paired with a sunshade cover.

<table>
<thead>
<tr>
<th>Model</th>
<th>74115</th>
<th>74116</th>
<th>74087</th>
<th>74088</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 Select 1x21</td>
<td>G3 1x20</td>
<td>G3 3.5x50</td>
<td>G3 4.5x60</td>
<td></td>
</tr>
<tr>
<td>Image tube generation</td>
<td>CF-Super I+</td>
<td>CF-Super I+</td>
<td>CF-Super I+</td>
<td></td>
</tr>
<tr>
<td>Magnification</td>
<td>1 x</td>
<td>3.5 x</td>
<td>4.5 x</td>
<td></td>
</tr>
<tr>
<td>Objective lens, mm</td>
<td>21</td>
<td>28</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Angular field of view, degree</td>
<td>40</td>
<td>24</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Max. Detection Range, yds</td>
<td>220</td>
<td>186</td>
<td>185</td>
<td>220</td>
</tr>
<tr>
<td>Head Mount included</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Degree of protection (IEC 60529)</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
<td>IP46</td>
</tr>
<tr>
<td>Weight, oz</td>
<td>12.5 (without head mount)</td>
<td>16.9 (without head mount)</td>
<td>17.6</td>
<td>24.7</td>
</tr>
</tbody>
</table>
EDGE

G3 Select 1x21 / GS 1x20 / GS 2.7x50 / GS 3.5x50L

Distance Field of view

<table>
<thead>
<tr>
<th>Distance</th>
<th>Field of view</th>
</tr>
</thead>
<tbody>
<tr>
<td>320</td>
<td>40°</td>
</tr>
<tr>
<td>20</td>
<td>26°</td>
</tr>
<tr>
<td>145</td>
<td>13°</td>
</tr>
<tr>
<td>185</td>
<td>11°</td>
</tr>
</tbody>
</table>

NIGHT VISION BINOCULARS & GOGGLES

ANALOG NIGHT VISION
The Edge night vision binoculars are easy in operation. The device and IR illuminator are switched by pressing buttons (ON and IR respectively) located on the top of the body. Additionally, the Edge binoculars & goggles are equipped with a gradual IR illuminator power adjustment function. The wheel-shaped power controller is located next to the IR illuminator activation button.

**Body**

The body of medallium and technium-fitted plastic is able to effectively withstand impact, rotation and dust which allows the unit to be used in extreme conditions.

**Controls**

The Edge night vision binoculars are easy in operation. The device and IR illuminator are switched by pressing buttons (ON and IR respectively) located on the top of the body. Additionally, the Edge binoculars & goggles are equipped with a gradual IR illuminator power adjustment function. The wheel-shaped power controller is located next to the IR illuminator activation button.

**Built-in IR illuminator**

The Edge night vision binoculars are equipped with built-in IR illumination with a gradual power control function:

- Devices without the visual magnification (1x) are equipped with an energy-conserving wide-angle short-range IR illuminator optimized for the use with a Head Mount in daylight (for map reading, use in dark closed rooms).

- The Edge GS 2.7x50 and 3.5x50L night vision binoculars feature more powerful IR illuminators (805 nm LED & 780 nm eye-safe Laser respectively) for observation at insufficient levels of illumination at a distance above the average.

**Tube protection**

The Edge GS series features an Image intensifier tube protector system — once the intensifier tube is damaged, the entire tube is automatically recapped or fully covered. This allows the user to reach the highest possible tube performance.
CF-Super technology

The CF-Super tube features, on average, 25% higher resolution than that in Gen. 1 only.

Constant image quality across the whole field of view
CF-Super's resolution is notable for its consistency. The resolution difference between the center and edges does not exceed 25%, while the contrast edge resolution ratio for Gen. 1 is more than five times.

Effective field of view
High resolution and geometric image precision provided by CF-Super lead to effective observation of an object located in any part of the field of view. Majority of Gen. 1 contains features distant image quality only in the center of the viewing area.
Weaver rail

The Edge binoculars are outfitted with a five-line reticule that maximizes detection across the entire field of view and increases image sharpness and contrast. A soft rubber eyepiece converts the light envelope from the tube to a comfortable user for easy viewing.

**Eye piece**

This Edge binoculars are outfitted with a five-line reticule that maximizes detection across the entire field of view and increases image sharpness and contrast. A soft rubber eyepiece converts the light envelope from the tube to a comfortable user for easy viewing.

**Head mount**

A Weaver Rail fixed on the top of the Edge GS 2.7x50 is used to enable attachment of additional accessories like IR flashlights.

**G3 Select 1x21**

- LED: 805 nm
- Dimensions: 6.4x4.4x2.4
- Weight: 30 incl. head mount

**GS 1x20 CF-Super I+**

- LED: 805 nm
- Dimensions: 6.4x4.4x2.4
- Weight: 30 incl. head mount

**GS 2.7x50 CF-Super I+**

- LED: 805 nm
- Dimensions: 8x4.8x2.5
- Weight: 30 incl. head mount

**GS 3.5x50L CF-Super I+**

- Laser: 780 nm
- Dimensions: 733x4.8x2.8
- Weight: 240
PHANTOM
3X50 / 4X60
ANALOG NIGHT VISION RIFLESCOPES

NIGHT VISION

PULSAR | IMAGE QUALITY
Selectable Reticle

Nitrogen purged optical path

The Phantom’s housing is rugged and reliable due to its construction of high-grade, glass-fiber, plastic composites. The unit can be operated in any weather condition. Unique for night vision, a nitrogen purged optical path prevents fogging caused by the temperature drop or high humidity.

Internal focusing

The optical system employs an internal focusing mechanism (from 5 ft to infinity) with ten fixed state-dial focus positions. The focusing provides clear images at extremely short distances as well as optimum quality at all distances within the riflescope’s working range.

Fast start-up option

The riflescope operates only when the fast start-up button is used (noted). It’s very convenient when you do not conduct permanent observation and need only a quick assessment of the situation.

Attachable IR Illuminator

The Phantom has an option of a powerful removable IR Illuminator offering a variable beam from spot to flood.

Night vision riflescopes Phantom

The Phantom features a red-on-green or green-on-green Mil-Dot reticle with brightness control. When the reticle starts blinking, this indicates that the battery should be replaced within 15-30 minutes.
A soft rubber cap with a pinhole for testing in daylight is permanently attached to the housing of the Phantom riflescope and protects the lens from water, scratches, and chips when the scope is not in use. When using the riflescope, simply slide the lens cap back along the side of the housing.

**Weaver 7/8" rail**

A Weaver 7/8" rail on the left side of the body designed for mounting additional accessories (IR flashlights, DSAl, red dot lasers).

**Power supply**

The riflescope can be powered both with a single AA (1.5 V) or CR123A (3 V) battery. The stabilised voltage of the power supply prevents drift and drop in reticle brightness and guarantees proper operation of the iris and IR illuminator, even when the batteries are nearly empty. The batteries are positioned vertically, which minimizes probability of energy supply when housing.

**Remote control**

The 3-button remote control duplicates the "On/Off" function and is helpful for tactical applications and can be activated on any lens to release part of the weapon. The third button is intended for an instant "On" start-up of the riflescope.
### Night Vision Riflescopes Phantom

<table>
<thead>
<tr>
<th>SKU</th>
<th>76077T</th>
<th>76076T</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>76077T</td>
<td>76076T</td>
</tr>
<tr>
<td><strong>Image tube generation</strong></td>
<td>3x50 HD</td>
<td>4x60 HD</td>
</tr>
<tr>
<td><strong>Magnification, x</strong></td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>Objective lens diameter, mm</strong></td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td><strong>Field of View, angular degrees</strong></td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>Detection Range, yds</strong></td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td><strong>Screen glow (luminophor)</strong></td>
<td>Green</td>
<td>Green</td>
</tr>
<tr>
<td><strong>Reticle</strong></td>
<td>Mil dot</td>
<td>Mil dot</td>
</tr>
<tr>
<td><strong>Dimensions, inch</strong></td>
<td>10.9x3.7x4.1</td>
<td>12.6x3.7x4.1</td>
</tr>
</tbody>
</table>

- **ANALOG NIGHT VISION**
- www.pulsarnv.com
**Conception and constructive**

Conceptually, the Expert binoculars were designed as a first-grade professional observation device based on an innovative Porro II prism system. An important feature of the Expert binoculars is a one-piece fiberglass reinforced plastic body notable for advanced performance and durability, while reliably protecting the inner parts of the binoculars. Moreover, the one-piece body design is the very feature that allows the Expert to be considered as a platform for further development of the product series in terms of functionality which singles it out among other binoculars. Comfortable to use and carry, the Expert binoculars are surprisingly lightweight and compact for the performance level it provides.

**Front safety glass**

In front of the lenses there are stationary glasses which protect the lenses against scratches and chips that can be caused by a strike, dust, moisture or dirt. Even if the binocular falls against a sharp object like a stone, for example, it will not be disabled and will retain its operability. The protective glass will take the hit; it may get broken but the lenses will not be damaged in any way.

**Reflection reduction mode**

Oxidation in Reflection Reduction Mode neutralizes or neutralizes the dazzling effect of sunlight returning back from non-metallic, highly reflective surface (water, snow, ice or glass) as well as it may reduce or attenuate through some of them (car windows).

**Contrast mode**

Contrast Mode featuring the yellow light tint helps in twilight, haze or fog for enhancing the image with brighter and contrasting spectrum.

The VIV venture treats remarkable Internet voice in remarkable viewing experience. Finally, with a single touch, they work by protecting the binocular against the blinding light of smoothing some of the spectrum. Changing the viewing mode is as simple as moving a switch on the bottom of the binocular.
**Fully waterproof**

Nitrogen filling ensures lenses stay fog-free. Designed as a water-resistant, shock-durable system the binoculars meet strict IPX7 standards of water & dust resistance (IEC 60529).

**Eclipse-M lens caps**

The lenses are covered with solid Eclipse-M turn case caps. There is no need to remove them (as, lenses cannot be tied), you just flip them up or sideways (depending on the position of caps) to protect the lenses against rain drops or unrelated flash light. If necessary, the caps can be left with lenses down.

**Eyes pieces**

The very imaging part of the body - eyes pieces are welling interpupillary distance, will be optical elements maximize comfort and cut out peripheral light. The eyes pieces are equipped with rubber bands which specifically inflated to shield the eye from stray flash light.
The distinctive feature of the binocular Expert VMR 8x40 Marine is the yellow inserts of the lens caps and eyepiece areas. This special coloring makes the binoculars more visible.

As compared to basic models, the Expert VMR 8x40 has partially rubberized body.

<table>
<thead>
<tr>
<th>SKU</th>
<th>72085</th>
<th>72091</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>VMR 8x40</td>
<td>VM 8x40 Marine</td>
</tr>
<tr>
<td>Magnification, x</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Objective Lens Diameter, mm</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Eye Relief, mm</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Field of View, degree</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Level of Protection, acc. to IEC 60529 Standard</td>
<td>IP67</td>
<td>IP67</td>
</tr>
<tr>
<td>Body color</td>
<td>Green</td>
<td>Black&amp;Yellow</td>
</tr>
<tr>
<td>Rubber armouring</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions, inch</td>
<td>7x66, 8x2</td>
<td>7x66, 8x2</td>
</tr>
</tbody>
</table>

**Expert VM Marine 8x40**

The distinctive feature of the binocular Expert VM Marine 8x40 is the yellow inserts of the lens caps and presence of rubber. This special coloring makes the binoculars more visible.
ACCESSORIES
**INFRARED FLASHLIGHTS**

**SKU 79071 Pulsar - 805 IR Flashlight**
Weaver rail mountable to fit all Pulsar designs – the 805 IR features focused beam, adjustable collimation and smooth brightness control. Powered by 2 AA batteries of its own it does not drain the internal power storage of a night vision device.

**SKU 79072 Pulsar L - 808S Laser IR Flashlight**
Similar in mechanical system to the 805 model, the L-808S is a flat top in developing line of the Pulsar’s laser with laser IR flashlights. With an emission power higher than that of the diode design - the L - 808S is one of the most powerful IR flashlights in the market today. It provides greater viewing distance when used with analog and digital night vision devices.

**SKU 79076 Pulsar - 940 IR Flashlight**

**SKU 79075 Pulsar L - 915 Laser IR Flashlight**
Operates in the stealth IR range, invisible by the unaided eye. Intended for use with digital NV systems, it is not effective and sometimes even undetectable for an "analog" NV system.

**SKU 79074 PULSAR - X850 IR Illuminator**
The most powerful in Pulsar line.

**COVER RING ADAPTERS**

**SKU 79124 DN 42 mm Cover Ring Adapter**
SKU 79122 DN 50 mm Cover Ring Adapter
SKU 79123 DN 56 mm Cover Ring Adapter
DN cover ring adapters are special mounting units, that enable installation of Forward DN/DA and Core FLD/FXD attachments in front of the objectives of day optic devices (riflescopes, spotting scopes and binoculars). Adapters are supplied with a set of insert rings (the choice of the insert ring is defined by the outer diameter of the objectives housing of optic device on which the attachment is being installed, the correspondence table of housing's outer diameters and insert rings is given below).

After installation the adapter stays constantly on the objective of optic device which allows installing the thermal of digital attachment in front of the objective swiftly. During the day when the attachment is not used, adapter serves as the mount for the protective cover (included in the package), which protects the optics of day riflescope.

<table>
<thead>
<tr>
<th>SKU</th>
<th>Pulsar 805</th>
<th>Pulsar 840</th>
<th>Pulsar L - 908S</th>
<th>Pulsar L - 915</th>
<th>Pulsar 8950</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>79071</td>
<td>79076</td>
<td>79072</td>
<td>79075</td>
<td>79077</td>
</tr>
<tr>
<td><strong>Emitter</strong></td>
<td>LED</td>
<td>LED</td>
<td>Laser Diode</td>
<td>Laser Diode</td>
<td>Laser Diode</td>
</tr>
<tr>
<td><strong>Range of equivalent power adjustment (max - min), Mw</strong></td>
<td>30 ... 200</td>
<td>30 ... 200</td>
<td>125 ... 200</td>
<td>125 ... 200</td>
<td>50 ... 360</td>
</tr>
<tr>
<td><strong>Wavelength, nm</strong></td>
<td>805</td>
<td>805</td>
<td>780</td>
<td>780</td>
<td>850</td>
</tr>
<tr>
<td><strong>Range of beam divergence, degree</strong></td>
<td>5.7 ... 10</td>
<td>5.7 ... 10</td>
<td>4.5 ... 7</td>
<td>4.5 ... 7</td>
<td>3.75</td>
</tr>
<tr>
<td><strong>Power supply, V</strong></td>
<td>3 (2xAA)</td>
<td>3 (2xAA)</td>
<td>3 (2xAA)</td>
<td>3 (2xAA)</td>
<td>3 (2xAA)</td>
</tr>
<tr>
<td><strong>Average operation time with one set of batteries, hour</strong></td>
<td>2</td>
<td>2</td>
<td>14</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td><strong>Operating temperature, °F</strong></td>
<td>-4 ... +104</td>
<td>-4 ... +104</td>
<td>-4 ... +104</td>
<td>-4 ... +104</td>
<td>-4 ... +104</td>
</tr>
<tr>
<td><strong>Dimensions, inch</strong></td>
<td>5.2x1.8x2</td>
<td>5.2x1.8x2</td>
<td>5.2x1.8x2</td>
<td>5.2x1.8x2</td>
<td>6x1.8x2</td>
</tr>
<tr>
<td><strong>Weight (with/without batteries), oz</strong></td>
<td>4.9/7</td>
<td>4.6/7</td>
<td>5.6/7</td>
<td>5.6/7</td>
<td>5.2/7</td>
</tr>
<tr>
<td><strong>Compatibility</strong></td>
<td>All NV Dev.</td>
<td>Digital NV</td>
<td>All NV Dev.</td>
<td>Digital NV</td>
<td>All NV Dev.</td>
</tr>
</tbody>
</table>
External power supplies are designed for the use with digital units and NV riflescopes, thermal imaging scopes. They feature greater capacity as compared to regular batteries which increases operation time of digital NV units and thermal imaging scopes several times.

### POWER SUPPLIES / BATTERY PACKS

**SKU 79113 EPS3I Battery Pack**

The EPS3I (2.4Ah) has a rigid plastic case and can be installed on any devices outfitted with a Weaver rail or ¼ inch tripod mount. Features an integrated LED battery level indicator.

**SKU 79112 EPS5 Battery Pack**

The EPS5 (5Ah) is outfitted with a one meter cable which allows it to be placed elsewhere in freezing conditions and to prolong operating time (EPS3/EPS3I units are supplied with a extension cable).

**SKU 79117 Pulsar DNV Battery Pack**

Battery Pack (supplied with a charger) is designed to fit into battery compartment and to power Forward DFA75, Forward DN55, all models of thermal imagers Quantum.

**SKU 79116 Pulsar DNV Battery holder**

Pulsar DNV Battery holder can be used with thermal imagers Quantum and digital front attachments Forward. When the batteries get discharged it allows to replace them rather quickly.

### LENSES & LENS CONVERTERS

**SKU 79092 NV Challenger GS 1x20 2x Lens Converter**

Afocal lens converter increasing the magnification of the Challenger GS 1x20 2 times.

**SKU 79096 NV50 1.5x Lens Converter**

**SKU 79097 NV60 1.5x Lens Converter**

Fast aperture afocal attachments fixed in front of the lenses that increase magnification of Phantom NV riflescopes 1.5 times retaining image quality.
The mounting holes in the base of the riflescope enable the mount to be installed in one of multiple positions. This choice (depending on the rifle type, anthropometric data of a shooter, etc.) helps the user to ensure the most suitable position on a riflescope.

SKU 79045 Digisight/Apex Weaver Rifle Mount
Designated for installation of riflescope on hunting weapons, that are equipped with Weaver or Picatinny rails.

SKU 79047 Digisight/Apex Prism 14/200 Rifle Mount
Universal base for placing mounts of different manufacturers including EAW (Apel), Blaser, MAK and others.

SKU 79048 Digisight/Apex Los/Dovetail Rifle Mount
Allows installation of riflescopes on carbines «Los 7-1», «Los 4», «Bars 4-1» and other weapons manufactured in Russia and Europe, that have upper mount «dovetail».

SKU 79046 Digisight/Apex MAK adapter
Allows to equip the riflescopes with a monoblock mounts MAK (Milmont, MAR Flex and others) for further installation on the weapon.

SKU 79043 Challenger HS Adapter
Standard for professional compact NV monocular, the HS adapter is used for mounting the Challenger GS 1x20 / Challenger G2+ 1x21 behind a red-dot scope. The adapter is recommended to use with red-dot sights featuring night luminescence modes.

EXTRAS

DOS ADAPTERS
SKU 79041 Challenger GS 1x20 DOS adapter
SKU 79042 Challenger G2+ 1x21 DOS adapter
Combined with the Challenger GS 1x20 / Challenger G2+ 1x21 NV monocular adapters allow use of soft air guns and a day optical riflescope for night shooting. The reticle of the riflescope is perfect for aiming. The adapters come equipped with reducing rings to fit the night vision device onto day-nightscopes and provide the benefit of various eyepiece diameters. To increase brightness of the image and range of shooting, additional Pulsar IR Flashlight can also be affixed on the adapter.

SKU 79032 NV Compact Head Mount
The NV Compact Head Mount allows hands-free operation of the night vision device and ensures its stable positioning even while in fast motion (pacing, running, abrupt movements). All adjustments of the head mount, such as 90 degrees raise of the unit, set the NV device’s position in the “forward-backward” directions relative to the eyes are made by one hand.

SKU 71012 Pulsar 5x30 Monocular
The Pulsar 5x30 Monocular can be attached to the Forward DN/DFA digital NV (Core Thermal imaging device) and used as a 5 power night vision (thermal imaging) scope. Along with this, the Pulsar 5x30 is a full-fledged observation device.

SKU 79081 Pulsar Neck Strap
The Pulsar neck strap is designed to be fixed to the devices which are equipped with 1/4 inch tripod socket. It can be used with thermal imagers Quantum, night vision devices Challenger etc. The length of the neck strap can be adjusted which makes it comfortable to carry both on the shoulder and around the neck. The Pulsar neck strap ensures secure grip of the unit and prevents the device from slipping out of hands.

SKU 79040 Challenger HS Adapter
Standard for professional compact NV monocular, the HS adapter is used for mounting the Challenger GS 1x20 / Challenger G2+ 1x21 behind a red-dot scope. The adapter is recommended to use with red-dot sights featuring night luminescence modes.

OTHER ACCESSORIES